



DEFENSE INFORMATION SYSTEMS AGENCY

P. O. BOX 549
FORT MEADE, MARYLAND 20755-0549

IN REPLY
REFER TO:

Joint Interoperability Test Command (JITE)

MEMORANDUM FOR DISTRIBUTION

10 Mar 11

SUBJECT: Extension of the Special Interoperability Test Certification of the Fujitsu FLASHWAVE 4100 Extension Shelf (ES) with Software Release 6.1

References: (a) DoD Directive 4630.05, "Interoperability and Supportability of Information Technology (IT) and National Security Systems (NSS)," 5 May 2004
(b) CJCSI 6212.01E, "Interoperability and Supportability of Information Technology and National Security Systems," 15 December 2008
(c) through (f), see Enclosure

1. References (a) and (b) establish the Defense Information Systems Agency (DISA), Joint Interoperability Test Command (JITC), as the responsible organization for interoperability test certification.

2. The Fujitsu FLASHWAVE 4100 ES with Software Release 6.1 is hereinafter referred to as the System Under Test (SUT). The SUT meets all of the critical interoperability requirements for the Defense Switched Network (DSN) and is certified for joint use. The SUT met the critical interoperability requirements for a Strategic Network Element set forth in appendices 5 and 9 of Reference (c) using test procedures derived from Reference (d). Although the SUT offers European Basic Multiplex Rate (E1) access interfaces, these interfaces were not tested by JITC. No other configurations, features, or functions, except those cited within this report, are certified by the JITC. This certification expires upon changes that affect interoperability, but no later than three years from the date of the original memorandum (17 March 2009).

3. The extension of this certification is based upon Desktop Review (DTR) 8. The original certification is based on interoperability testing conducted by JITC, DISA adjudication of open test discrepancy reports, review of the vendor's Letters of Compliance (LoC), and Defense Information Assurance (IA)/Security Accreditation Working Group (DSAWG) accreditation. Interoperability testing was conducted by JITC at the Global Information Grid Network Test Facility, Fort Huachuca, Arizona from 7 July through 1 August 2008. Regression testing was conducted from 1 through 5 December 2008 and documented in Reference (e). Review of vendor's LoC was completed on 11 December 2008. DISA adjudication of outstanding test discrepancy reports was completed on 18 December 2008. DSAWG grants accreditation based on the security testing completed by DISA-led Information Assurance test teams and published in a separate report, Reference (f). DSAWG accreditation was granted on 10 March 2009 and expires three years from date of issue. The original certification specified the expiration date

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four years from date of issue; however, this certification is also based on the IA accreditation, which is limited to three years, so expiration date has been changed to reflect the maximum authorized timeframe. Additionally, this DTR was requested to include the latest version number for the previously certified component listed in Table 1. The component included in Table 1 was certified by JITC in the original certification. The JITC determined there is no risk in approving this DTR because this change improves the manufacturing process without changing unit functionality or performance. This hardware version number update reflects minor hardware changes in the SUT: the faceplate material was changed from metal to plastic and several Integrated Circuits were consolidated into a Field Programmable Gate Array, which have no effect on the functionality, performance, or interoperability of the SUT. Therefore, JITC approves this DTR. DISA Network Systems Directorate has approved the Information Assurance posture of SUT in this DTR on 4 February 2011.

Table 1. SUT Component Version Numbers

Part Number	Part Number Description	Correct/New Version Number
FC9681EL31	Dual Port OC-3 Line Unit	07
LEGEND: Mbps Megabits per second OC Optical Carrier OC-3 Optical Carrier Level 3 (155 Mbps) SUT System Under Test		

4. The SUT Interoperability Test Summary is shown in Table 2 and the Capability and Feature Requirements used to evaluate the interoperability of the SUT are indicated in Table 3.

Table 2. SUT Interoperability Test Summary

DSN Access Interfaces			
DSN Switch Access	Critical	Status	Remarks
T1 CAS (AMI/SF) DTMF, MFR1, DP	No ¹	Certified	Met all CRs and FRs.
T1 CAS (B8ZS/ESF) DTMF, MFR1, DP	No ¹	Certified	Met all CRs and FRs.
T1 PRI (ANSI T1.619a)	No ¹	Certified	Met all CRs and FRs.
T1 SS7 (ANSI T1.619a)	No ¹	Certified	Met all CRs and FRs.
E1 CAS (HDB3) DTMF, MFR1, DP	No ¹ (Europe only)	Not Tested	The SUT offers this interface; however it was not tested. The SUT E1 CAS interface is therefore not certified by JITC. This is not a required interface for a Strategic Network Element.
E1 ISDN PRI (ITU-T Q.955.3)	No ¹ (Europe only)	Not Tested	The SUT offers this interface; however it was not tested. The SUT E1 CAS interface is therefore not certified by JITC. This is not a required interface for a Strategic Network Element.
E1 SS7 (ANSI T1.619a)	No ¹ (Europe only)	Not Tested	The SUT offers this interface; however it was not tested. The SUT E1 CAS interface is therefore not certified by JITC. This is not a required interface for a Strategic Network Element.
DS3	No ¹	Certified	Met all CRs and FRs.
DSN Access Interfaces (continued)			
DSN Switch Access	Critical	Status	Remarks
DS3C	No ¹	Certified	Met all CRs and FRs.
10/100 Mbps Ethernet	No ¹	Certified	Met all CRs and FRs.
Gigabit Ethernet	No ¹	Certified	Met all CRs and FRs.

Table 2. SUT Interoperability Test Summary (continued)

DSN Transport Interfaces				
Optical Carrier Level	Transport Level	Critical	Status	Remarks
OC-3	VT 1.5	No ²	Certified	Met all CRs and FRs.
	STS-1	No ²	Certified	Met all CRs and FRs.
OC-12	VT 1.5	No ²	Certified	Met all CRs and FRs.
	STS-1	No ²	Certified	Met all CRs and FRs.
Features And Capabilities				
Features and Capabilities		Critical	Status	Remarks
Synchronization		Yes	Certified	Met all CRs and FRs.
Network Management		Yes	Certified	Met all CRs and FRs.
Security		Yes	See note 3.	See note 3.
NOTES: 1 The UCR does not stipulate a minimum Access interface requirement for a Strategic Network Element. 2 The UCR does not stipulate a minimum Transport interface requirement for a Strategic Network Element. 3 Security is tested by DISA-led Information Assurance test teams and published in a separate report.				
LEGEND: 10/100BaseT 10/100 Mbps (Baseband Operation, Twisted Pair) ITU-T International Telecommunication Union – Telecommunication Ethernet Standardization Sector AMI Alternate Mark Inversion Mbps Megabits per second ANSI American National Standards Institute MFR1 Multi-frequency Recommendation 1 B8ZS Bipolar Eight Zero Substitution MLPP Multi-Level Precedence and Preemption CAS Channel Associated Signaling OC-3 Optical Carrier Level 3 (155 Mbps) CR Capability Requirements OC-12 Optical Carrier Level 12 (622 Mbps) DISA Defense Information Systems Agency PRI Primary Rate Interface DP Dial Pulse Q.955.3 ISDN Signaling Standard for E1 MLPP DS3 Digital Signal Level 3 (44.736 Mbps) SF Super Frame DS3C Digital Signal Level 3 (89.472 Mbps) SS7 Signaling System 7 DTMF Dual Tone Multi-Frequency SUT System Under Test DSN Defense Switched Network STS Synchronous Transport Signal E1 European Basic Multiplex Rate (2.048 Mbps) T1 Digital Transmission Link Level 1 (1.544 Mbps) ESF Extended Super Frame T1.619a SS7 and ISDN MLPP Signaling Standard for T1 FR Feature Requirements UCR Unified Capabilities Requirements HDB3 High Density Bipolar 3 VT1.5 Virtual Tributary 1.5 ISDN Integrated Services Digital Network				

Table 3. SUT Capability and Feature Interoperability Requirements

DSN Access Interfaces			
Interface	Critical	Requirements Required or Conditional	References
T1 CAS	No ¹	<ul style="list-style-type: none">• DS1 Interface Characteristics (C)• DS1 Supervisory Channel Associated Signaling (C)	<ul style="list-style-type: none">• UCR para. A9.5.1.2.4• UCR para. A9.5.1.2.4
T1 SS7 (ANSI T1.619a)	No ¹	<ul style="list-style-type: none">• DS1 Clear Channel Capability (C)• DS1 Alarm and Restoral Requirements (C)	<ul style="list-style-type: none">• UCR para. A9.5.1.2.4• UCR para. A9.5.1.2.4
T1 ISDN PRI (ANSI T1.607/ANSI T1.619a)	No ¹	<ul style="list-style-type: none">• E1 Interface Characteristics (C)• E1 Supervisory Channel Associated Signaling (C)	<ul style="list-style-type: none">• UCR para. A9.5.1.2.5• UCR para. A9.5.1.2.5
E1 ISDN PRI (ITU-T Q.955.3)	No ¹ (Europe only)	<ul style="list-style-type: none">• E1 Clear Channel Capability (C)• E1 Alarm and Restoral Requirements (C)	<ul style="list-style-type: none">• UCR para. A9.5.1.2.5• UCR para. A9.5.1.1
E1 CAS	No ¹ (Europe only)	<ul style="list-style-type: none">• MOS (R)• BERT (R)	<ul style="list-style-type: none">• UCR para. A9.5.1.1• UCR para. A9.5.1.1
E1 SS7 (ANSI T1.619a)	No ¹ (Europe only)	<ul style="list-style-type: none">• Secure Transmission (Voice and Data) (R)• Modem (R)	<ul style="list-style-type: none">• UCR para. A9.5.1.1• UCR para. A9.5.1.1
DS3, DS3C	No ¹	<ul style="list-style-type: none">• Facsimile (R)• Call Control Signals (R)	<ul style="list-style-type: none">• UCR para. A9.5.1.1• UCR para. A9.5.1.1
10/100 Mbps Ethernet	No ¹	<ul style="list-style-type: none">• Delay (R)• Call Congestion Control (R)	<ul style="list-style-type: none">• UCR para. A9.5.1.1• UCR para. A9.5.1.1.3
Gigabit Ethernet	No ¹	<ul style="list-style-type: none">• Call Congestion (R)• Voice Compression (C)	<ul style="list-style-type: none">• UCR para. A9.5.1.1.4• UCR para. A9.5.1.2.6
		<ul style="list-style-type: none">• DS3 Interface Requirements (R)• IP Interface (C)	<ul style="list-style-type: none">• UCR para. A9.5.1.2.9
DSN Transport Interfaces			
Interface	Critical	Requirements Required or Conditional	References
OC-3	No ²	<ul style="list-style-type: none">• MLPP (R)• GR-303-CORE (R)• GR-253-CORE (R)• GR-782-CORE (R)• ANSI T1.105-2001 (R)• DS1 Rate Transport via VT1.5 (R)• DS1 Rate Provisioning (R)• DS0 Call Processing (R)• DS0 to OC-3 Route Assignment (R)• Facility Alarms (R)• DS1 AIS/Yellow (R)• DS0 AIS/DS0 RAI (R)• Synchronization in accordance with GR-518-CORE (R)• Synchronization in accordance with GR-253-CORE (R)• Synchronization in accordance with GR-436-CORE (R)• Reliability (R)• Security (R)	<ul style="list-style-type: none">• UCR para. A5.5.1• UCR para. A5.5.2• UCR para. A5.5.2• UCR para. A5.5.2• UCR para. A5.5.2• UCR para. A5.5.2• UCR para. A5.5.2• UCR para. A5.5.2• UCR para. A5.5.3• UCR para. A5.5.4• UCR para. A5.5.4• UCR para. A5.5.4• UCR para. A5.5.5• UCR para. A5.5.5• UCR para. A5.5.5• UCR para. A5.5.6• UCR para. A5.6
OC-12	No ²	<ul style="list-style-type: none">• MOS (R)• BERT (R)• Secure Transmission (Voice and Data) (R)• Modem (R)• Facsimile (R)• Call Control Signals (R)• Delay (R)• Call Congestion Control (R)• Voice Compression (C)	<ul style="list-style-type: none">• UCR para. A9.5.1.1• UCR para. A9.5.1.1• UCR para. A9.5.1.1• UCR para. A9.5.1.1• UCR para. A9.5.1.1• UCR para. A9.5.1.1• UCR para. A9.5.1.1.3• UCR para. A9.5.1.1.4

Table 3. SUT Capability and Feature Interoperability Requirements (continued)

SUT Features And Capabilities																																																																																																			
Feature/Capability	Critical	Requirements Required or Conditional	References																																																																																																
Synchronization	Yes	<ul style="list-style-type: none"> • Timing (R) 	<ul style="list-style-type: none"> • UCR para. A9.5.1.2.7 																																																																																																
Network Management	Yes	<ul style="list-style-type: none"> • Management Option (R) <ul style="list-style-type: none"> - Local Management (Front Panel and/or External Console) (C) - ADIMSS (C) • Fault Management (C) • Loop Back Capability (C) • Operational Configuration Restoral (R) 	<ul style="list-style-type: none"> • UCR para. A9.5.2.1 • UCR para. A9.5.2.2 • UCR para. A9.5.2.3 • UCR para. A9.5.3 																																																																																																
Security	Yes	<ul style="list-style-type: none"> • DIACAP and STIGs (R) 	<ul style="list-style-type: none"> • UCR para. A9.6 																																																																																																
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5. No detailed test report was developed in accordance with the Program Manager's request. JITC distributes interoperability information via the JITC Electronic Report Distribution (ERD) system, which uses Unclassified-But-Sensitive Internet Protocol Router Network (NIPRNet) e-mail. More comprehensive interoperability status information is available via the JITC System Tracking Program (STP). The STP is accessible by .mil/gov users on the NIPRNet at <https://stp.fhu.disa.mil>. Test reports, lessons learned, and related testing documents and references are on the JITC Joint Interoperability Tool (JIT) at <http://jit.fhu.disa.mil> (NIPRNet). Information related to DSN testing is on the Telecom Switched Services Interoperability (TSSI) website at <http://jitc.fhu.disa.mil/tssi>. Due to the sensitivity of the information, the Information Assurance Accreditation Package (IAAP) that contains the approved configuration and


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deployment guide must be requested directly through government civilian or uniformed military
personnel from the Unified Capabilities Certification Office (UCCO), e-mail: ucco@disa.mil.

6. The JITC point of contact is Mr. Khoa Hoang, DSN 879-4376, commercial (520) 538-4376,
FAX DSN 879-4347, or e-mail to khoa.hoang@disa.mil. The JITC's mailing address is P.O.
Box 12798, Fort Huachuca, AZ 85670-2798. The tracking number for the SUT is 0820403.

FOR THE COMMANDER:

Enclosure a/s


for BRADLEY A. CLARK
Acting Chief
Battlespace Communications Portfolio

Distribution (electronic mail):

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Joint Interoperability Test Command, Liaison, TE3/JT1

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Headquarters U.S. Air Force, Office of Warfighting Integration & CIO, AF/XCIN (A6N)

Department of the Army, Office of the Secretary of the Army, DA-OSA CIO/G-6 ASA (ALT),
SAIS-IOQ

U.S. Marine Corps MARCORSYSCOM, SIAT, MJI Division I

DOT&E, Net-Centric Systems and Naval Warfare

U.S. Coast Guard, CG-64

Defense Intelligence Agency

National Security Agency, DT

Defense Information Systems Agency, TEMC

Office of Assistant Secretary of Defense (NII)/DOD CIO

U.S. Joint Forces Command, Net-Centric Integration, Communication, and Capabilities
Division, J68

Defense Information Systems Agency, GS23

ADDITIONAL REFERENCES

- (c) Defense Information Systems Agency, "Department of Defense Voice Networks Unified Capabilities Requirements (UCR), 21 December 2007
- (d) Joint Interoperability Test Command, "Defense Switched Network Generic Switch Test Plan (GSTP), Change 2," 2 October 2006
- (e) JITC Memo, JTE, "Special Interoperability Test Certification of the Fujitsu FLASHWAVE 4100 Extension Shelf (ES) with Software Release 6.1," 17 March 2009
- (f) Joint Interoperability test Command, "Information Assurance (IA) Assessment of Fujitsu FLASHWAVE 4100 Extension Shelf (ES) with Software Release 6.1 (Tracking Number 0820403)," 10 March 2009